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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,008	06/30/2003	Sang-Duk Lee	6192.0099.C1	1956

32605 7590 04/23/2007  
MACPHERSON KWOK CHEN & HEID LLP  
2033 GATEWAY PLACE  
SUITE 400  
SAN JOSE, CA 95110

EXAMINER
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NGUYEN, DUNG T

ART UNIT	PAPER NUMBER
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2871

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/23/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

2/

<b>Office Action Summary</b>	Application No. 10/608,008	Applicant(s) LEE ET AL.	
	Examiner Dung Nguyen	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 23 January 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 45 and 51-57 is/are pending in the application.  
     4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 51-57 is/are allowed.
- 6) ☒ Claim(s) 45 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

## DETAILED ACTION

### *Continued Examination Under 37 CFR 1.114*

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 01/23/2007 has been entered.
2. Applicant's response dated 01/23/2007 has been received and entered. Claims 45 and 51-57 are now pending in the application.

### *Election/Restrictions*

3. Claim 51 is allowable. The restriction requirement as set forth in the Office action mailed on 06/17/2004, has been reconsidered in view of the allowability of claims to the elected invention pursuant to MPEP § 821.04(a). **The restriction requirement is hereby withdrawn as to any claim that requires all the limitations of an allowable claim.** Claims 53-57, directed to non-elected group no longer withdrawn from consideration because the claim(s) requires all the limitations of an allowable claim.

In view of the above noted withdrawal of the restriction requirement, applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

Once a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

***Claim Rejections - 35 USC § 103***

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claim 45 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hashimoto, US Patent No. 5,442,470, in view of Lee, US Patent No. 5,988,827.

Regarding claim 45, Hashimoto discloses a liquid crystal display (LCD) device (figure 2) having a mold frame (4), an LCD panel (1), a circuit board (3) fitting in a groove (4b) formed from lower surface of the frame (4), wherein the circuit board (3) was electrically coupled to the LCD panel (1) by a plurality of flexible printed circuits (FPC) (col. 4, ln. 43) and the FPC is bent in a U-shaped (fig. 3, col. 4, ln. 62). Hashimoto, however, does not explicitly disclose the circuit board having a driver integrated circuit (IC). Lee does disclose a circuit board may include a plurality of ICs, which connected to the LCD (col. 2, ln. 63). Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to employ the Hashimoto's circuit board including IC as shown by Lee in order to drive an LCD device and to save a space in a display device.

***Terminal Disclaimer***

6. The terminal disclaimer filed on 01/23/2007 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of the US Patent 6,862,053 has been reviewed and is NOT accepted.

An attorney or agent (Applicant's representative, Don C. Lawrence), not of record, is not authorized to sign a terminal disclaimer in the capacity as an attorney or agent acting in a representative capacity as provided by 37 CFR 1.34 (a). See 37 CFR 1.321(b) and/or (c).

***Allowable Subject Matter***

7. Claim 51-57 are allowed

8. The following is a statement of reasons for the indication of allowable subject matter

The references of record neither disclose nor make obvious a display device comprising a combination of various elements as claimed, more specifically of an inverter attached on the mold frame and having a first connector, a printed circuit board having a second connector at an end, wherein the first connector and the second connector are engaged for electrically connecting the inverter and the printed circuit board by bending a flexible printed circuit to attach the printed circuit board on a lower surface of the mold frame as set forth in claim 51.

***Response to Arguments***

9. Applicant's arguments filed 01/23/2007 have been fully considered but they are not persuasive.

Art Unit: 2871

Applicant's only argument is Hashimoto fails to disclose any "grooves" formed on the lower surface of the "frame member 8" to receive the ICs and the FPC cannot be bent toward the lower surface of the mold frame since the "holder member" 4, in fact, are a plurality of optional, clip-like used to attach the PCB to the LCD panel in a "dovetail" manner. The Examiner respectfully disagrees with Applicant's viewpoint. In particular, as a definition of "frame", it denotes for a support structure. Therefore, the Hashimoto's holder member (4) that used to support for LCD panel (1) can be considered as a "frame". In other words, the holder member (4) meets all features of the Applicant's framing as claimed.

Accordingly, claim 45 stand rejected as stated above.

### ***Conclusion***

10. All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

Art Unit: 2871

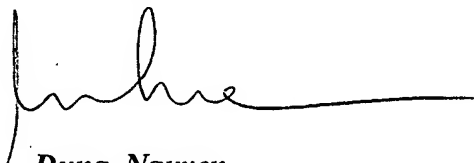
1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN  
04/16/2007



**Dung Nguyen**  
**Primary Examiner**  
**Art Unit 2871**